

R.T. Abbott
Field Record Book
April - October 1945
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(NAMRU-2)

R.T. Abbott

FIELD BOOK

NAMRU-2

DOTTA Guam Isl.

Field Notes Namru-2
1948

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Id,

105 Small stream 8400 yds 355' from
top of Kaomian PH and another
small ^a island, on east coast of
Saipan Id., Mariana Is. April 18, 1945
(just south of 31st General Hospital)

Portals of PH - 100 yds from
beach

106 100 yds from beach, south
beach. PH abundant

106 Stream 225 yds 347° from tip of
Kagman Point and 113° from
Maniagabady on east coast of Saipan,
Marianas. April 14, 1945
13

107 Western shore of Lake Susupe, Saipan Id.,
Marianas. April 14, 1945
13

108 Marsh on east shores of Lake Susupe,
Saipan Id., Marianas, Apr. 14, 1945
13

109 Nickelson Spring, 2000 yds 98° from
Mt. Tapotchau and 136° from
Kagman Point, central Saipan Id.,
Marianas. Apr. 14, 1945
13

110 Natural Bridge Spring #1, central
Saipan Id., Marianas. Apr. ~~13~~¹⁴, 1945

111 Donnay Spring, $\frac{1}{2}$ mi. north east of
Natural Bridge, central Saipan Id.,
Marianas. Apr. ~~13~~¹⁴, 1945

112 Small stream, 3000 yds bearing 080° from
Flores Point, Tanapag Harbor,
Saipan Id., Marianas. Apr. ~~13~~¹⁴, 1945

113

Lily Pond, N.E. end of Tanapag Harbor.
on Naval Air Base, Saipan Id., Marianas
April 14, 1945

114

Swamp, 4200 yds N.E. of Tanapag
Harbor, western Saipan Id., Mariana
Apr. 14, 1945

115 Hill near road, 7100 yds bearing 83°
from Maniagassa Id. and 352° from
Kagman Pt. Saipan Id., Marianas.
April 14, 1945
deep Land only

116 Grove 12000 yds bearing 358°
from Kagman Pt. and 85° from
Maniagassa Id., northern Saipan
Id., Marianas. Apr. 14, 1945
Partially covered with sample

117 Hill slope 2000 yds bearing 135° from
Flores Point, Tanapag Harbor, Saipan
Isl., Marianas, Apr. 4, 1945
Soil to 100 yds. deep and
Partula.

117b Partula commonest

118 Hill slope 2000 yds bearing 130°
from Flores Point, Tanapag Harbor,
Saipan Id., Marianas. Apr. 15, 1945
Partula. 500 yds northeast of #117

119	Easternmost peak of Mount Tapotchau, Saipan Id., Marianas Apr. 15, 1945.
-----	--

1. *Ar. lutea*

120	Charan Kanoa Beach, western Saipan Id., Marianas. Apr. 15, 1945
-----	--

121 Gulley, north end of Magicienne Bay,
bearing 292° , 4500 yds from Kagman
Pt., eastern Saipan Id., Marianas
Lymnaea = Partula Apr. 16, 1945

122 Westernmost gulley, south side of
Kagman Pt., eastern Saipan Id.,
Marianas. Apr. 16, 1945

Partula
Stream dry.

123 Highest hill on Kagman Point,
east of Saipan Is., Marianas
Apr. 16, 1945

124 Jap Shrine, bearing 232° , 2900 yds from
Tsukimi Id., south of Saipan Is.,
Marianas Apr. 16, 1945
and 198° from Marpi Pt.

125 W. side of first hill southeast
of Mount Marpi, northern Saipan
Id., Micronesia Apr. 16, 1945

3 Red Army

126 Northwest crest of Mount Marpi,
northern Saipan Id. Micronesia
Apr. 16, 1945

127 Co. Beach east, on top of
Saipan Id. Marianas
bearing $\approx 50^\circ$ 4400 yds from Tsukimi Id.
Apr. 16, 1945

128 Brackish spring, bearing 053° 1500
yds from Agingan Point, southwest
Saipan Id., Marianas. Apr. 17, 1945
NO SNAILS

129

Ridge, bearing 021° , 2600 yds from
 south peak of Mt. Tapotchau, and 102°
 from Nutchu Point, Saipan Id.,
 Marianas. Apr. 17, 1945
Portula abundant

130

Marpo Valley, southern Tinian
 Id., Marianas. Apr. 18, 1945

131

Lah. Hagoi, northwest
Marianas. Apr. 18, 1945

Tinian Id.,

132

Pilgo River, 1100 yds. up stream
from mouth, Agaña Bay area,
Guam Id., Marianas. Apr. 21,
1945

Lymnaea (Fusca) siliola old
common. No other FW shells.
Stream with slight flow, 2-3
feet across, 1-3 inch deep.
Ocean nearby. Water clear.
Stagnant pools present. High
banks. Portula radiolata Pff.

133

Pilgo River, 3000 yds up stream
from mouth, Agaña Bay area,
Guam Id., Marianas. Apr. 21, 1945

W. freshwater mollusks. Stream
narrower but healthier & swift
Retziella notuolata

134

Marsh behind Agaña, ~~western~~
Guam Id., Marianas. Apr. 22, 1945

Melania (Plotia) acabra uncommon
Lymnaea (Fossaria) olivula common
River in back of town devoid of shells.

135

135 Agana Spring, $1\frac{1}{2}$ mi. S.E. of Agana,
Guam Island, Marianas. Apr. 22, 1945

Melania (Tarebia) granulifera very abundant in spring and sloughway.
Lymnaea (Pseudosuccinea) olivula, young common.

136

136 Stream 600 yds south of Asan,
western Guam Id., Mariana. Apr. 24

137 First stream, 600 yds south of Piti,
western Guam Id (Cabrado area),
Marianas. Apr. 24

Helina granifera marianorum
abundant 200 ft north of road.
Stream small, warm, sluggish.
Collected in stream, on bank
of water. Not working.

138 Aguada River, 100 yds from mouth,
western Guam Id, Marianas. Apr. 24.

Same. Few a little greater

139

Wotho branch, 1700 yds from mouth of
 Tenjo River, ~~western~~ Guam, Marianas
 Small quick flow. Apr 24.
 Clear water, little shade, ^{solid} bottom

Heliconia *sp.* *sp.*

140

1 mile up Namo River near Agat,
 western Guam Id., Marianas.
 April 24, 1945.

141 Pagan River, 1 mile up stream,
eastern Guam Isl., Marianas
April 26, 1945

Stream fast, 6 feet wide, 6" deep.
water cool.

142

Water Plant, Ylig River, 2 miles
up stream, eastern Guam Isl.,
Marianas. April 26, 1945

Stream fast, 6 feet wide, 6" deep.
water cool.

143 Bridge over Talisai Stream, 2 miles S.E.
of Agat, western Guam, Marianas.
May 21

144 1/2 mile up Inarajan River, S.E.
Guam Isl., Marianas
May 2

145

Swamp $2\frac{1}{2}$ miles S. E. of Agaña,
central Guam Id., Marianas.

May 3

146

$\frac{1}{2}$ mile north of Dedede, Northern
Guam Id.

May 4, 1945

147 2 miles southeast of Depot Field,
No. Guam Id.
May 4, 1945

148 5 miles south of Ritidian Pt.,
northern Guam Id., Marianas.
May 4, 1945

149 Near Letecjan, ~~2 1/2~~ miles southeast of
Ritidian Pt., northern Guam Id.
May 6, 1945

[May 8, 1945, was V-E day]

150 First Stream east of Gens. River,
opposite Pt. Mangell, southern Guam.
Lymnaea olivula only
May 10, 1945

151 Umatoc River, behind Umatoc
Bay, S.W. Guam Id.
May 10, 1945
Mellonia & Neritina abundant

152 La Sa Fua River, 1 mile upstream
north of Umatoc Bay, S.W. Guam Id.
Marianas
May 10, 1945
Mellonia & Neritina abundant

153

Creek on west side of Santa Rosa Peak,
N.E. Guam Id., Marianas
May 13, 1945
no snails.

Land snails on east peak of Mt.

154

Binaranan River, 1/2 mi. north of
Tanauan, eastern Leyte Id., Philippines
June 9, 1945

Melania and Neritina under bridge.
River clear, s. pit x 2-3 feet, bottom
from muddy sand. ~~Tritia~~ and
Syncaea abundant out of water along
mud banks under shade of low Bernice
grass.

Tritia grandis ~~not~~ found in shallow
3-4 inch water in quiet areas near
banks. *Hydrobia*
2 *Unio* collected.

Water pH 7.5

A. habei
Syncaea ① *A. thielei*
② small form
A. boettgeri → ③ 4 bands
June 29 ④ large, large indistinct band
⑤ very small, yellow orange, spiral sculpture
on open sand banks where grass is very sparse or absent. Heavy
⑥ large *Melania* *Hampdeni*
3 & 2 & 1 in great abundance
A. philippinica

155

Stream between Tibak and Santa Fe
3rd bridge west of Palo, Leyte Id., Philippines
June 10, 1945

156

1/2 mi. N.W. of Alangalang, roadside,
north central Leyte Id., Philippines
June 10, 1945

at roots of tall grass, wet mud.
S. quadras common

157 Creek at Gacao, 3 miles west of Palo,
eastern Leyte, Philippines.

June 1945

Water pH 7.5 to 7.8 (after rain)

Study on *S. quadricornis* being made here
from day to day.

Lymnaea

Melania

Pila

Gyraulus

Segmens

Viviparus

"*Pseudom*"

(after no rain for two days at a place
200 feet down the creek from the original
place - Temp. 81°F pH 8.1)

King area S. of road

Queen area N. of road

Field
105-157

sent to Ball
Oct 26, 1945

158 4 miles east of Dagami, 4 miles south
of Binabuan River, eastern Leyte Id.,
Philippines June 17 1945

S. quadricornis

Melania

Viviparus

Gyraulus

Segmens

Lymnaea

Pseudom

Melania at B. center edge of
river. Water flow 6 km/hr.

pH 7.8, Temp. 81°F at center

of river. Soft black sand

bottom. River 50' x 1-3'.

Bank muddy, tall rice steep.

(158a D)

Area of Rural Radio Transmitter
158a B. River

□ □ □

158a
Binabuan R.
4 miles EIVE of
Dagami.

(158) marshy

159 SW. outskirts of Dagami, near Rice
field, Leyte Id. Philippines June 17
1945

S. quadricolor

Myrmica

Lymnaea

Viviparus

Segmontina

160 San Isidro, 4 miles ENE of
Dagami, 2 miles north of Benakaa River,
Leyte Id. Philippines June 17, 1945.

S. quadricolor common

Viviparus

Segmontina, *Lymnaea*, *Myrmica*

Low area in between two grass
pastures. Ph of water 7.5. Temp. 85°F
Water foot deep, "permanent", fairly
clear. *S. q.* on grass stems 1/4 to 1" out
of water. No *S. q.* in pasture or in
deep carbon wallows.
Patch also shaded by trees.

161

Palo River, between 2 bridges out
Palo City, Leyte Id., Philippines
June 19, 1945

③ no *Synca*
2nd bridge
30 foot falls

PALI

S → N

② *Synca*
abundant

① 1st Bridge → to Tacloban

① Just above 1st bridge. *Synca* on moist
compact earth under deep matted grass
from water's edge back up the bank for
10 feet. Also on inside of old sunken
outriggers. Temp in grass next Earth
78°F. pH of water at banks 8.0

Synca
not abundant.

④

162

Cancabato River, bridge at
Burayan, N.E. Leyte Id., Philippines
June 19, 1945

Centrulus

a *boettgeri* Alkoa. *blanfordi**Synca* 13a. *schubertii*

Reticularia - mud-mangroves.

1 *Synca* with spiral sculpture heavy!*Sermyla*

Any *Synca* & *S. quadratus* that have fresh and
soft shells underwent the following
treatment.

1. Stupified for 12 hours with a small
crystal of menthol on the surface of the
water.
2. Washed in water.
3. Bouin's solution for 24 hours.
↓ Picric acid, glacial acetic acid, formaline
4. Washed in water.
5. 35% alcohol 1 1/2 hours
6. 50% " 1 "
7. 70% " "

J. Kaboyman

163

Guinarona River, bridge near
mouth, eastern Leyte Id., Philippine
June 18, 1945 (north fork)

Spicra

Neotoma sp. ac. l.

July 4, 1945 revisited. 50 feet west of bridge
on south bank Stenothya & unknown genus
found. Brackish pools in shade of young
coconut palms. Water still 6" deep,
bottom black mud, sticks leaves.

Stenothya & unknown in water on bottom
or underside of debris.

Stenothya same as those sent by
Ferguson to Bequaert - a new species.

164

1 mile west of Barric of San Antonio,
S.W. Samar Id., Philippine.

(a) Small stagnant creek very small.
Tall grass, swampy. Earth reddish brown.
Only Lynceus.

(b) 100 feet away; small stream (2 feet
by 3"). Temp. 81°F. Current: 6 knots.
Ph 8.2. Melania on ground and
gray silt bottom in quiet pools.

(opposite Tachoban, single)

165 Estuary Creek, Binatac Point, S.W.
Samar Id., Philippines. June 21, 1945

Tidal, stagnant — mangroves.
Red *Sonneratia* on low mud flat
bordering creek. Black *Sonneratia* *nefandica*
under bank and tops just beyond high
water mark. *Avicennia* common
on mud from water's edge back 5 feet.

(Opposite Tacloban, Leyte)

A. Philippinica 165①

165⑤

A. crassitesta 165②

A. ~~transfusa~~ 165④

166 Marsh 1/2 mile south of Mt. Danglay,
Binatac Point, S.W. Samar Id.,
Philippines. June 21, 1945

Marsh area draining south about
1 square mile. High grass (4 feet).
Much of the area is soggy with
numerous carbon wallows. Blue gray
mud. Temp of water 85°-90° F. pH 8.2
Avicennia *racemosa* and *Viridiflora*
spec. common. No *Sonneratia*.

(Opposite Tacloban, Leyte)

167 Layog River at bridge, 14 miles of road
west of Abuyog, eastern-central
Leyte Id., Philippines. June 23, 1945

River 30' x 2', clear fast, rapids.
mountainous district.

Melania *campanula* *in* *habitudo*?

(eastern watershed)

168 Mountain streamlet, 4 miles east of
Gubang, on Abuyog-Baybay road,
central Leyte Id., Philippines.

Melania

Streamlet, 1 foot x 3". Shady gully.
(western watershed.)

169 North bank of Pagbangaran River,
Baybay, western Leyte Id.,
Philippines June 23, 1945

Syncaea, Cerithium, Carthodes, Estuaries

A. philippinica 16911

A. boettgeri 16912

170 1/4 mile below south bank of
Pagbangaran River, in Baybay,
western Leyte Id., Philippines

June 23, 1945

Cerithides abundant, *Meretrix*, *Syncaea*
undulata, *Hydrobia*, *Donax*.

170(2) = A. philippinica

170(1) = A. boettgeri

171 March 1/2 mile S.E. of Baybay, western
Leyte Id., Philippines. June 23, 1945

(Ponds at edge of field in winter. Water 3' to 6" deep)

pH 7.5, Temp 85°F

Microscopic algae, water fern, *Utricularia*
& *Pilea*.

172 Panayuan River at bridge, 1 mile
east of Gubang, western Leyte Id.,
Philippines.

2 species of *Melania* (*Tarebia*) only
abundant

This river is very large & runs
directly into the Sagbayan Bay. Water clear,
flow fast, temp. 82°F, pH 7.6,
rock & sand bottom. The
bed is about 1/4 mile wide
water 30 feet X 3-6 feet. Rapids
every 1/2 mile.

173

1/2 mile from mouth of
Pasabangayan River, Baybay,
Leyte Isl., Philippines. June 23, 1945

Syncaeca sp.

A. philippinica

A. boettgeri

1730

174

1/2 mile east of Hitomnog,
Dagami area, eastern Leyte Isl.,
Philippines. June 25, 1945.

Low country, *S. quadras* in
swamp grass near rice fields. No
snails in rice paddies, only on the
ditch edges.

To the west 1/2 mile the country
rises into the hills & no *S. g.* found
beyond this point

175 Stream, 1 mile north of Hiabangan,
Dagami area, eastern Leyte Isl.,
Philippines. June 25, 1945

No S.g.
Melania
Brodia
Viviparus!

Ph 7.4
Temp. 78°F
Flow swift
3' x 2'
banks steep.
Shady
soft sand + mud

176 Beach at Tacloban, Leyte
June - 1945

Pool collection.
Water dirty

177

Valley below Kapangian $1\frac{1}{2}$ S.W.
of Talloban, Leyte Id., Philippines.
June 28, 1945

Low swampy area with no large
permanent creeks. A few permanent
pools in sedge-grass. *Melania*, *Myxas*,
Viviparus common. No S.G.

Ph 8.0 to 7.9. Temp. @ 0930 after long
night rain, cloudy - 84°F . (Black

① → animal *Myxas* along the edge of the
swamps.

In one small isolated pool 5 feet in
diam. & 3" deep, surrounded by high
grass, there were about 100 *Myxas* - all
the same size and bodies brownish.
Ph 8.0. Temp @ 1000 88°F .

② →

Viviparus abundant in certain permanent
mud bottomed pools. Temporary rain pools
& carbon mud wallows have no
snails.

This area not far above the sea level.

178

San Joaquin Estuary, San Joaquin,
eastern Leyte Id., Philippine Ids.
June 29, 1945

Synca, *Cerithidea*, red crabs.
Cockroach

① *A. boettgeri*

② *A. philippinensis*

③ *A. blanfordi*

④ *A. habee*

⑤ 4 birds also - *A. boettgeri*

⑥ *Stenothyrus*

⑦

Stenothyrus

Dulag
(Leyte Id.)
see Army map Sheet 3
of 4 sheets

← Dagami

Binahaan

Binahaan
(Kabuanan R)

Tanauan

179. Estuary 2 miles south of Tanauan and west side of airfield, Leyte Id., Philippines. July 4, 1945

Syncaea (only *A. kabei* Abbott)

Sermyla is mud flats out in the sea, & half burrowed into moist green algae. *Actinia* is also very abundant with *Sermyla*.

179 (3) = *A. boettgeri*

Tanauan

179 (3) = *A. blanfordi*



180 South fork, Guinaraona R., at Telagrafo, eastern Leyte Id., Philippines.

July 4, 1945

Myxas, melania

Stenothys a ~~small~~ west side of bridge

181 Labiran River estuary, Dulas area,
eastern Leyte Isl., Philippines.
July 4, 1945

Entire area with putrid, oily water.
Hermitina, 2 spec. Sphaera, 1 Melampus.
No S.g. 1 mi S. in fresh water swamp.

182 1 mile north of Burauan, Leyte Isl.,
Philippines

S. quadrasi abundant near road in
running streams draining large areas of
rice fields. Found at base of tall
thick cane-like grass. No S.g. in
rice paddies. P.H. 7.2. Temp. 81°F.

183 Brook 1/2 mile S.E. of Napuro,
western Samar Id., Philippines

July 7, 1945

Drains into rice field & grows in
Mulanoides, Stenogelania, Lymnaea, and
large land shell.

184

Stream just east of Napuro,
western Samar, July 7, 1945

Stenogelania (kailala?), Ph 8.2

Temp. 86°F. Stop tanks.

185 Beach at Santa Margarita, western
Samar Id., Philippines. July 7, 1945

186 Nadang valley, 2.1 mile, N.E. of
Ogusdo on Route #1, N.W. Samar
Id., Philippines. July 8.
O. (s.) quadrat edge of rice fields
pH 8.2, Temp. 84°F. Hippuris,
Pisidium, Union from nearby river.
July 16

187 Creek at Magubay $\frac{1}{2}$ mile from
Ogundo River on Route #1, N.W. Samar
Id., Philippines. July 8, 1945

188 2 miles N.N.E. of Inoraguan,
western Samar Id., Philippines
July 8, 1945

189 Forest brook, 1/2 mile N. of Gandara west
of river, N.W. Samar Id., Philippines
July 9, 1945.
Neotoma

190 Small stream nr. San Miguel,
south of Gandara, N.W. Samar
Id., Philippines, July 10, 1945.

(2 streams A & B 300 yds apart)
west east

191 West outskirts of Gandara, N.W.
Samar Id., Philippines. July 10, 1945
O. (s.) quadrasi. Th 8.0 to 8.1. Temp.
88°F.

(A) center of field under tree. small pools,
little drainage.

(B) west side of field, running water.

San Miguel
192 2 miles south of Gandara, N.W.
Samar Id., Philippines July 10,
1945.

S. quad. ac. Lymnaea nearby in
another small pool but no S. g.

193

Beach south of Calbayog, N.W.
Samar Id., Philippines, July 11, 1945.

194

Rice Valley behind Santa
Margarita, N.W. Samar Id.,
Philippines, July 11, 1945. *Melania*
& *Pila* only. Also *Synalava*

7 rats examined 4 neg. 3 pos. for
schisto.

A. philippinica

A. crassireta Btg.

195. Estuary at Bugko, N. Samar Id.,
Philippines, July 16, 1945. *Syncaea*
under rocks at low tide.

Neritina

A. philippinica

196 Estuary at Bantayan River,
N. Samar Id., Philippines. July
16, 1945. *Syncaea* on wet logs.

A. philippinica

197

Estuary at Catarman, N. Samar
Id., Philippines. July 1st, 1945.
Synonym.

197 @ = A. philippinica

A. boettgeri

198

Cabulatan valley, 3 miles
west of Bayog, Macara District,
N.E. Samar Id., Philippines July 13
S. ground on rim of valley.
July 17.

(Catubian River Drainage)

199 Lapan Island, N.E. Samar Isl.,
Philippines. July 17, 1945

200 Malijao, Route #1, south of
Cataman, N. Samar Isl., Philippines
July 19, 1945. (S. quadroni west
side of road.)

201 Cervantes, 20 km south of
Catagan, central N.W. Samar
Isl., Philippines. July 19, 1945
Large land snails only.

202 Trinidad, 4 miles west of
Calbayog, N.W. Samar Isl.,
Philippines. July 19, 1945

Synca

A. philippinica

203 2 miles west of Catagan, N.
Samar Isl., Philippines. July 18,
1945.

S. quadras

204 Catbalogan Beach, N. Samar
Isl., Philippines. July 20-21,
1945.

Melania behind town.
Meritina 1/2 mile south, near sea.
Erycininae

204A/ *Parthenocera* in Catbalogan, *Cyprina*
moreletii & *gemma* from San Antonio,
Capul Isl. N.W. Samar.

Large *Cassirata* from Capul Isl.

205 north outskirts of Santo Fe, N.E. Leyte
Isl., Philippines, July 24, 1945

Sighting

7.9

[July 3 - Cruiser Indianapolis sunk east of Leyte
980 but because report was not relayed to
headquarters.]

206 5 km N.W. of Basey, south west
Samar Id. Philippines
Aug. 2, 1945
no S.g. in this area

207 San Miguel, northern Leyte Id.,
Philippines. Aug. 3, 1945

Pala.

No S.g. in this area

208 1/2 mile north of Palo, N.E. Leyte Id.,
Philippines. Aug. 4, 1945

HILL

Temp 99°F!
very little water, putrid
north

road to
Tackaban

stream

HILL

Quarry

Palo R.

Palo

No S.g. in this area.

209 Tiglac Barrio, 2 1/2 miles east of
Tachoban, N.E. Leyte Id., Philippines
August 6, 1945

2090 Tachia from wide shallow, rocky rubble
bottom river (Tiglac) trap in flat 1.5 ft
(1.5 ft deep)

2091 Melanoides from small creek, 100
100 feet from running into river,
mud bottom.

Rec'd from Col. Wright from Mindanao

Linao, 40 mi. S.E. of Cagayan, north
central Mindanao. July 1945

Malaybalay, 38 mi. S.E. of Cagayan,
north central Mindanao.

Calarig Barrio, 3 km. east of Lala,
Calanbangan Valley, S.E. of Cagayan.
Danzalan, 3 mi. S.E. of northern tip
of Lake Lanao, Mindanao.

Mintal, m. Davao, Mindanao

210 Lake Bito (Danao), Abuyog area,
eastern Leyte Id., Philippines
August 14, 1945

Palaemonetes melanica segmentaria



211 Alayog, eastern Leyte Id., Phil. Ids.
August 14, 1945

2 sp. in ~~river~~
Synca A. boettgeri; A. blanfordi.
Cerithidea
in S. g. in area.

VS day out here.

212 River at Burauen, Leyte Id., Philippines
Aug. 16.

① Tarebia 1
② Melanoides

213 Estuary at DUT 5 mi. n.w. of Tacloban,
Leyte Isl., P.I. Aug 26, 1945

① *Stenothoe*

214 Stream, 1/2 mile n.w. of Jan, Leyte
Valley, Leyte Isl., P.I. Aug 27, 1945

No S.g.

① *Brodiaea*, *V. repens*, *M. repens*

↓ some had collected up a rock out of water.

215

Cabigonan River, Jaro, Leyte
Valley, Leyte Id., Philippines.
August 27, 1945

Tarebia melania (3)

216

(#1)
(Mindanao)

Stream marsh behind Surigao, M.F.
Mindanao Id., Philippines. Aug. 29, 1945

Large *Tarebia* *Conithidea* *Melania*,
Vitellina & *Planorbis* fairly abundant.
Small *pelecypoda* *limpida* *white*
foot *conithidea* &

217
(#2) Surigao River, 2 mi. South of
Surigao, N.E. Mindanao, Philippine
Aug. 21, 1945

Tanabara angling. River in dry season.
Water level low, low flow, mud-sand
bottom. Grass banks, a few trees.
No more than 2 ft. deep.

218
#3 Masayan River, 2 miles north of
Tubod, Lake. Inagaitan, N.E.
Mindanao, Philippines. Aug 31, 1945
Tanabara angling.

219 - Between Tubod and Ulegria (km post 42)
(#4) Lake Mainit drainage, N.E. Mindanao Id.
Philippines. Aug. 31, 1945

Melania, Bithynia small, fa 1 flowing
creek. S. quadras in flooded grass
slope area below road.

22.0

#5

1.5 km E. of Mainit, Lake Mainit
drainage, N.E. Mindanao Id. Aug. 31, 1945

S. quadras in flooded grass flowing
creek.

221 Injunct, with 100 to Lake Mainit

(7)

423 *Chalcidius basalis* Tral
(#8) Mindanao Is. Philippines, Sept 6, '45

Chalcidius Bithynia^H

424 *Chalcidius* *basalis* Tral, north
(#9) Mindanao Is. Philippines, Sept 10, '45

Chalcidius *basalis* Tral

225. *Thalysia* *undulata* *undulata*
(11) *Thalysia* *undulata* *undulata*

undulata

226. *Thalysia* *undulata* *undulata*
(11) *Thalysia* *undulata* *undulata*

undulata *undulata* *undulata*
dutch 3 part *undulata* *undulata*
flow *undulata* *undulata*

227 Davao City, Lab. house;
#12 Mindanao Id., Philippines. Soft 4/4 45
Vulgar - many to be seen.

228 3 miles S.W. of Davao City,
#12 Mindanao Id., Philippines. Soft 4/4 45

229 Dupita Bay, N.W. - Mindanao Id.,
Philippines. Sept 12 1905

Callinectes *fulvus*
Callinectes *fulvus* *Callinectes* *fulvus*

230 Zamboanga, 17 June 1905
Zamboanga, Mindanao, Philippines

Callinectes *fulvus*

233 2 km north of Kananga, W. Leyte Id.,
Philippines. Sept. 17, 1945
Malina

234 4 km south of Kananga W. Leyte Id.,
Philippines Sept 17, 1945

235 Ormoc Beach, western Leyte Id.,
Philippines. Sept. 17, 1945

Left a live *Chidrum* in a small rock
on beach of
low tide.
It is now dead.

236 Spid, south of Ormoc, western
Leyte Id., Philippines

F. W. in small - behind town.
Nautilus from children.

237 Ravine, 1/2 mile N.E. of Borac, Cagayan,
western Luzon, Philippines. Sept. 18.

(end of list)

238 Matagob (Dipi), ^{north} western Leyte Isl.,
Philippines Sept. 19, 1945

Taenia Stenolamiae from river.
Myxa pomfidiaria barrio.

239 Colasian bay riv. Carigara Bay
north Leyte Isl. Philippines. Sept 19, 45

Sh. water in a small pool, edge of
a mangrove beach.

240 Balud, 1 mi. east of Capocoran,
Carigara Bay, north Leyte Isl. Philippines
Sept 19, 1945

2 spec. *Ebrythra* - 1 sp. of *Ebrythra*
among *Nipa* palm. Brackish water.

241 Pagsanjan, 10 mi. N.W. of Ormoc,
N.W. Leyte Is., Philippines Sept 19

242 Pagsanjan, Digakongay Dagami
N.W. Leyte Is., P.I. Sept 27, 1945

Sp. ch. 1 - 1000

Sp. ch. 2 - 1000 Localities.

243 Brook, near St. of Zamboanga
Zamboanga, Leyte Id.,
Philippines Oct. 5, 1945

(L. 10 x 10 mm in fine mossy
bank 1 to 3'. Rocky bottom, shaded.
Substrate of sand & coral.

dactylus fide J. Bequaert

244 Guinan, S. E. Samar Id.
Philippines
± Oct 15, 1945

245 Tububao Island, Guinan Peninsula,
S.E. Samar Id., Philippines.

± Oct. 15

Syncaera

A. crassilesta

MT. Alifan
complex of peaks →

246 S.E. side of 3rd peak 1600 yds south of
Mt. Alifan, western Guam Id., Marianas
Oct. 23, 1945

Partula salifana Crampton !!

" *fragilis*

" *gibba*

" *radiolata*



(see USAFICPA April 1944 special
grid - Agat Bay, Island of Guam.)

247 600 yds due east of 2nd Peak 1200 yds
south of Mt. Alifan, western Guam Id.,
Marianas. Oct. 23, 1945

Area 2 (see 246)

248 400 yds due east of 1st peak 800 yds.
due south of Mt. Alifan, western
Guam Id., Marianas. Oct. 23, 1945.

Area 3 (see 246)

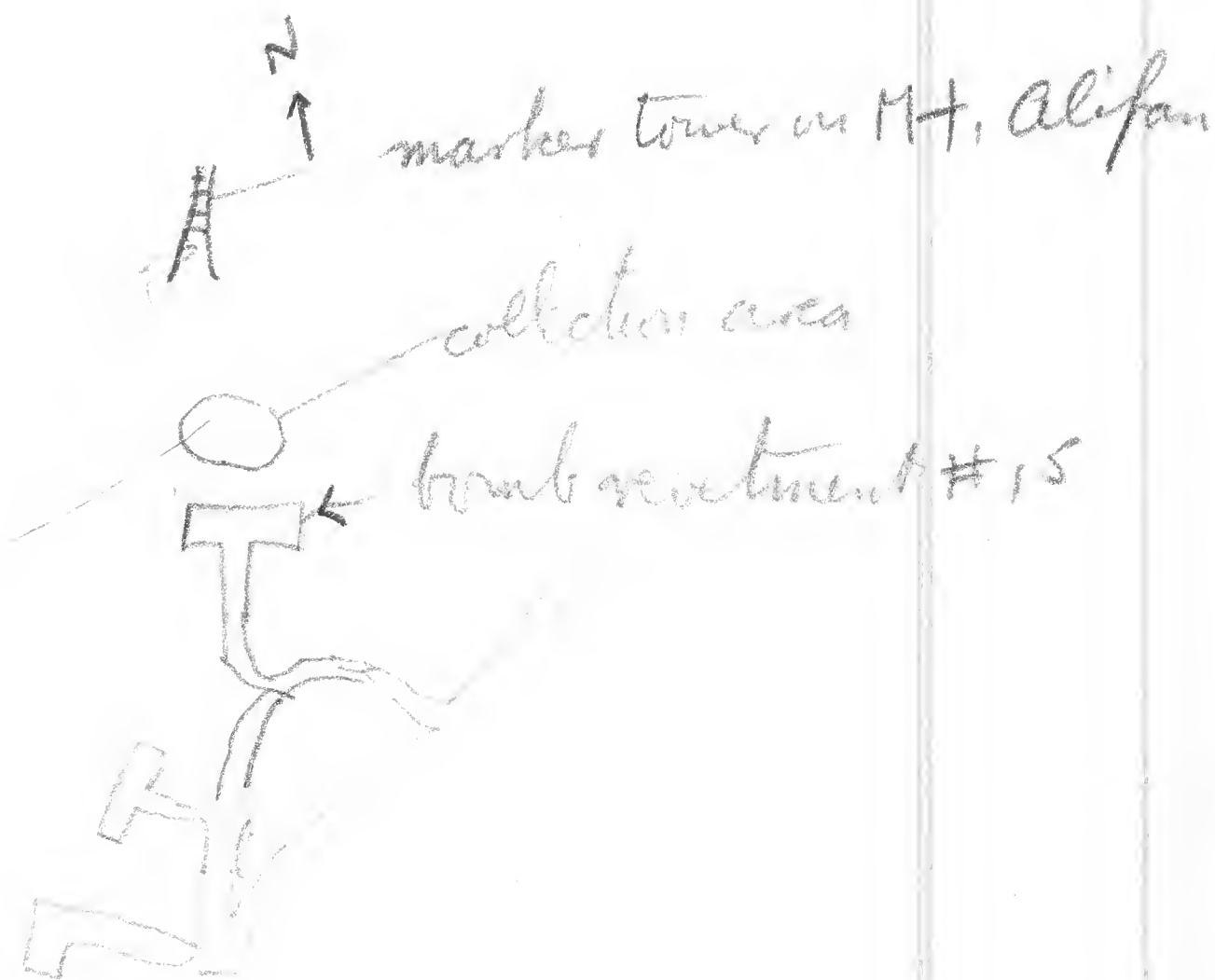
249 S.W. slope of 3rd peak 1600 yds south of Mt. Alifan, Guam Id., Marianas. Oct. 23, 1945

Area 4



250 200 feet S.S.W. of Mt. Alifan Peak, western Guam Id., Marianas. Oct. 24.

area 5



As many as 15 *P. salifana* found on one Pandanus bush.
P. fragilis very common. *P. Colony*
 100 feet by 300 feet scattered individuals.
 No *gibba* or *radiolata*.

East side of
251. 2nd minor rising, 400 yds south of Mt.
Alifan Peak, western Guam, Oct. 24.
hybridization occurring?

600 yds
↓
252 East side of 1st large peak south
of Mt. Alifan Peak, western Guam,
Oct. 24. 1945

Bomb revetment # 23.

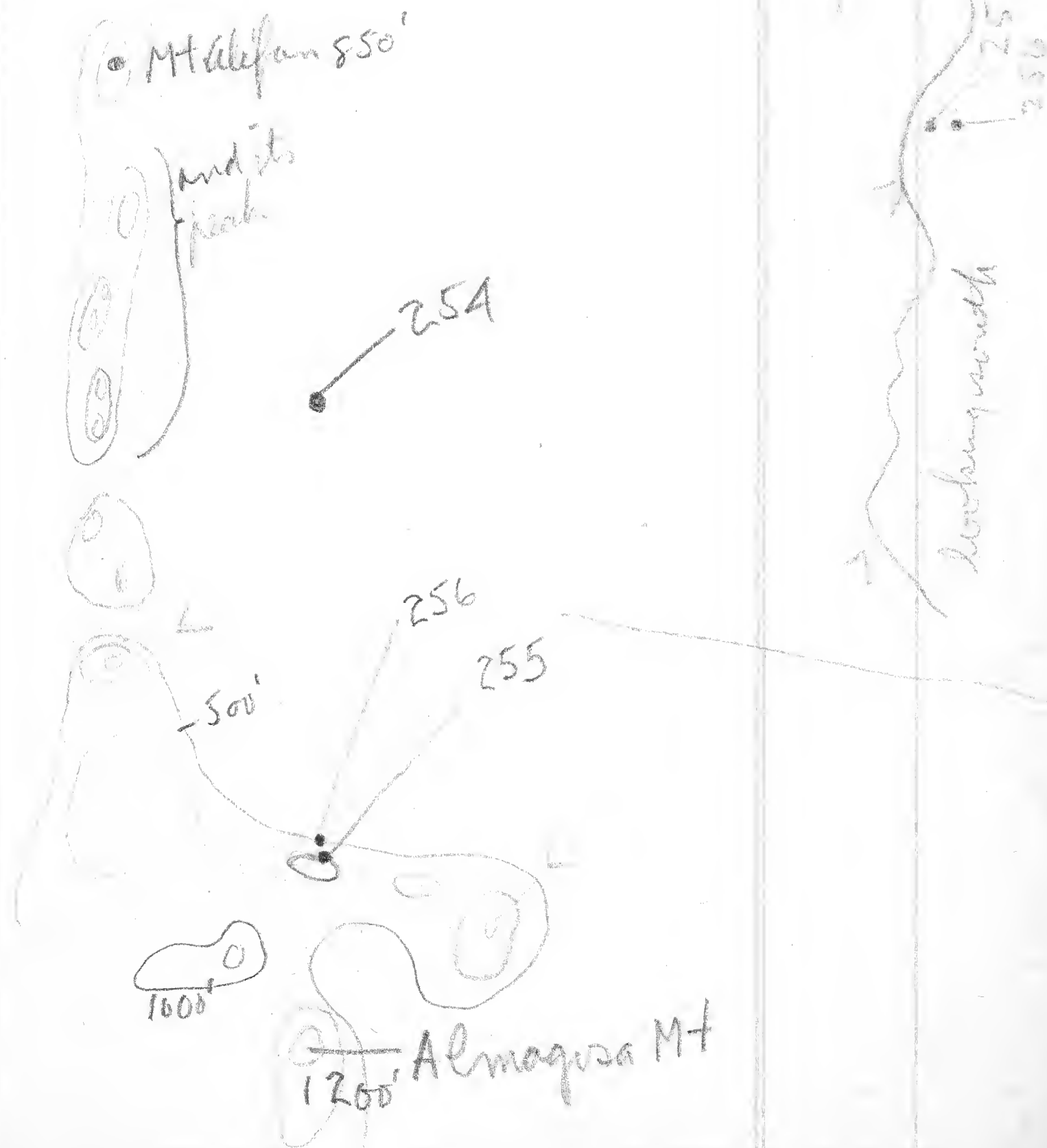
253 Thicket (200 ft alt.) $3\frac{1}{2}$ miles south
of Tenjo Mt. and bearing 120°
 $2\frac{1}{8}$ miles from Mt. Alifan peak.
Oct. 24.

254 600 yds east of 3rd major peak south of
Mt. Alifan, Guam. Oct. 26.

Small frog only.

Ridge,
255 900 yds due north of Almagosa Mt.
500 ft alt, western Guam Id., Marianas
Oct. 26, 1945

P. salifera & *gibba*
1 aggregation isolated specimens



256 Ridge 1000 yds due north of Almagosa
Mt., 450 ft. alt. Western Guam Id.,
Marianas. Oct. 26, 1945

P. salifera & *gibba* 1 sp.
olive brown
↓ 3 aggregation

